

# WEB01 – MVC on steroids

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# Grazie a

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# La «solita» sessione su MVC

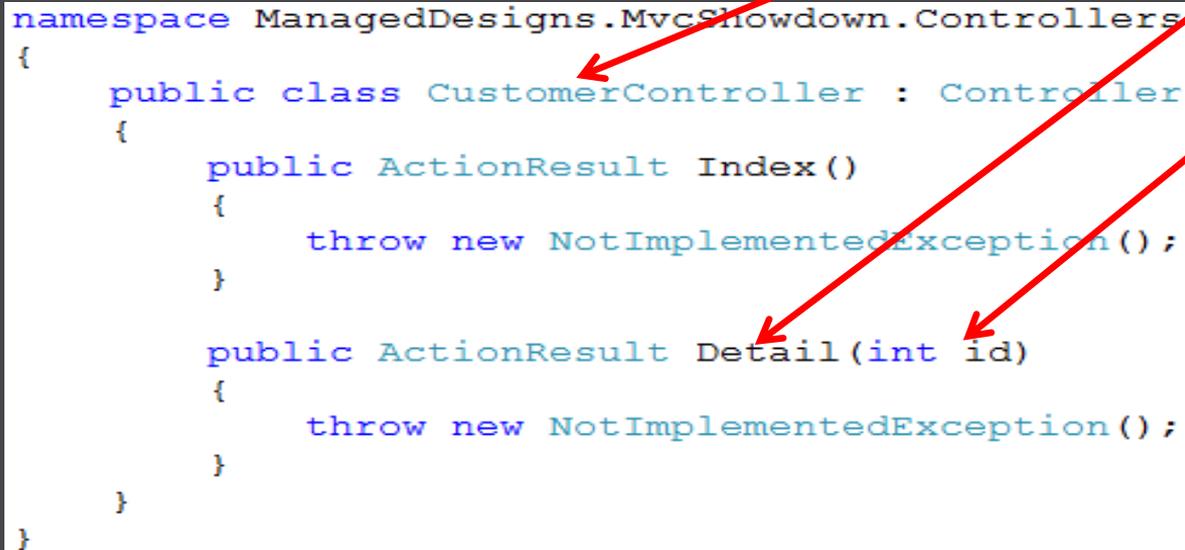
- WebFormViewEngine/Razor
- Model binding
- Data Annotations
- EditorTemplates/DisplayTemplates
- jquery 1-2-3

# Nelle puntate precedenti...

<http://www.miosito.it/Customer/Detail/1>

```
namespace ManagedDesigns.MvcShowdown.Controllers
{
    public class CustomerController : Controller
    {
        public ActionResult Index()
        {
            throw new NotImplementedException();
        }

        public ActionResult Detail(int id)
        {
            throw new NotImplementedException();
        }
    }
}
```



# Agenda

- IoC
- Action Results
- Localizzazione
- Filters
- IoC feat. Service Locator
- Async controllers

# MVC <3 IoC

- Perché? Per permettere al controller di... fare il controller 😊
- Come? Implementando **IControllerFactory**

# Ready, set, Action!

Le *action* restituiscono un valore di tipo **ActionResult**.  
"Pragmapolimorficamente" parlando:

- **ViewResult**. Restituito dal metodo **View**.
- **PartialViewResult**. Restituito dal metodo **PartialView**.
- **ContentResult**. Restituito dal metodo **Content**.
- **JsonResult**. Restituito dal metodo **Json**.
- **EmptyResult**. Restituito dalle action che vogliono restituire "null".
- **RedirectToRouteResult**. Restituito dai metodi **RedirectToAction** e **RedirectToRoute**.
- **RedirectResult**. Restituito dal metodo **Redirect**.
- **YourOwnPersonalResult** (semi-cit 😊), restituito da una factory ad hoc

In MVC 3, i metodi Redirect sono disponibili anche nel gusto «Permanent»

# Localizzazione

Come?

- Out of the box: risorse
- Hand made: per esempio, multi-view

# Filters

Sono gli `HttpModule` di ASP.NET MVC, realizzati come attributi che implementano:

- `IActionFilter`
- `IAuthorizationFilter`
- `IExceptionFilter`
- `IResultFilter`

# IActionFilter

*Action filters contain logic that is executed before and after a controller action executes. You can use an action filter, for instance, to modify the view data that a controller action returns.*

- `OnActionExecuted(ActionExecutedContext)`
- `OnActionExecuting(ActionExecutingContext)`

# IAuthorizationFilter

*Authorization filters are used to implement authentication and authorization for controller actions. For example, the Authorize filter is an example of an Authorization filter.*

- OnAuthorization(AuthorizationContext)

# IExceptionHandler

*ExceptionHandler filters are the last type of filter to run. You can use an exception filter to handle errors raised by either your controller actions or controller action results. You also can use exception filters to log errors.*

- `OnException(ExceptionContext)`

# IResultFilter

*Result filters contain logic that is executed before and after a view result is executed. For example, you might want to modify a view result right before the view is rendered to the browser.*

- `OnResultExecuted(ResultExecutedContext)`
- `OnResultExecuting(ResultExecutingContext)`

# IoC feat. Service Locator

Implementare una factory custom non è sufficiente? In MVC3 è possibile ridefinire:

- Cache locator
- FilterProvider
- ModelBinder/ModelBinderProvider
- ViewPageActivator
- ...

# Async Controllers

- Perché? Per liberare preziosi thread del pool di ASP.NET
- Come? Derivando **AsyncController** e «sdoppiando» le *action*
- Quando? Quando una action è luuuuuunga per motivi di I/O e non di CPU\*

# Q&A

- Materiale su

<http://www.communitydays.it/>

<http://nsk.codeplex.com>